REPLACEMENT SHEET
Application No.: 09/451,090
Art Unit: 2151
Title: System and Apparatus for Storage and Transfer of Secure Data on Web inventor: Ravi Sandhu

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Expiration Secure FALSE An Example of Cookies on the Web Cookie Value manager Alice Cookie Name Name Role Path Flag acme.com acme.com Domain

TO: 15712732885

AUG-03 05 18:19 FROM:

5713230071

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	Domain	Flag	Path	Flag Path Cookie_Name	Cookie_Value	Secure	Secure Expiration
IP_Cookie	acme.com	! · 1	/	IP_Cookie	129.174.100.88   FALSE   12/31/99	FALSE	12/31/99
Pswd_Cookie acme.com   TRUE	acme.com	TRUE	1	Pswd_Cookie	hashed_password   FALSE   12/31/99	FALSE	12/31/99
KT_Cookie	acme.com TRUE			Kerberos_Ticket	/ Kerberos_Ticket {Alice, Kc,s}Ks   FALSE   12/31/99	FALSE	12/31/99
Sign_Cookie acme.com TRUE	acme.com	TRUE	_ /	Sign_Cookie	Sign_Cookie   Signature_of_Alice   FALSE   12/31/99	FALSE	12/31/99
			¥	Authentication Cookies	ies	÷	

AUG-03 05 18:19

FROM:

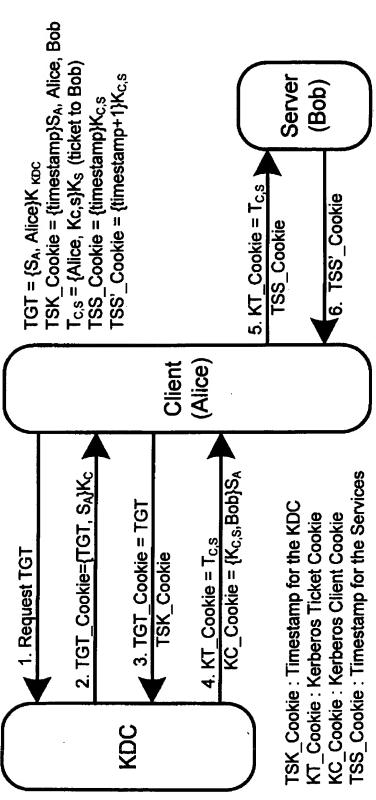
## REPLACEMENT SHEET Application No.: 09/451,090 Art Unit: 2151

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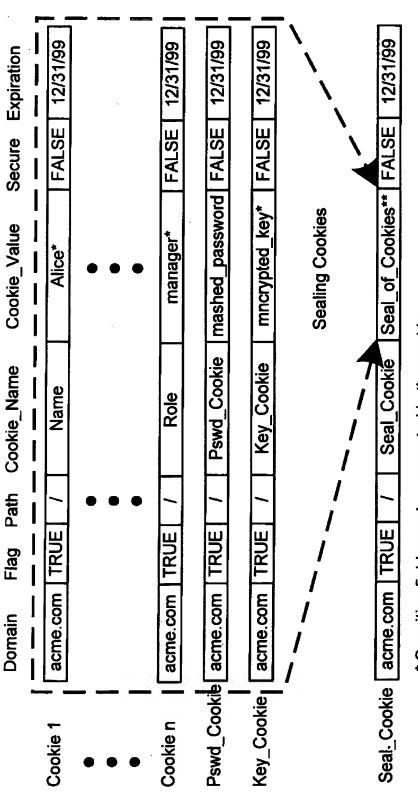
Kerberos-based Authentication with cookies

FIG. 3

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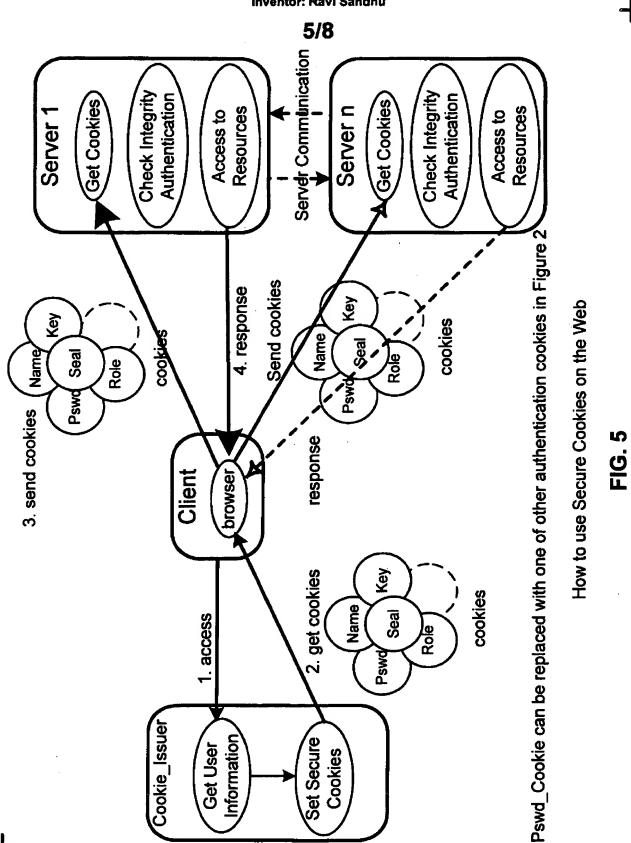
Sensitive fields can be encrypted in the cookies.

Pswd\_Cookie can be replaced with one of other authentication cookies in Figure 2 Seal of Cookies can be either MAC or signed message digest of cookies.

A Set of Secure Cookies on the Web

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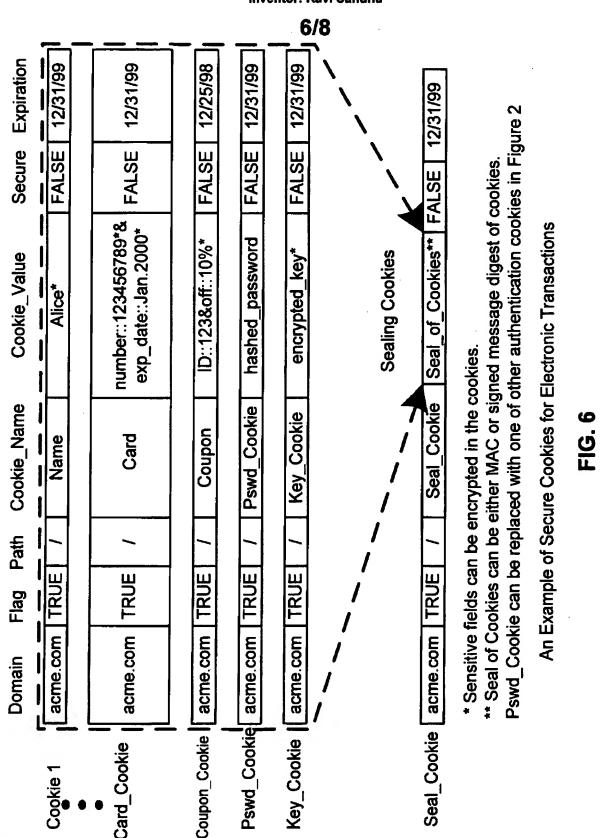


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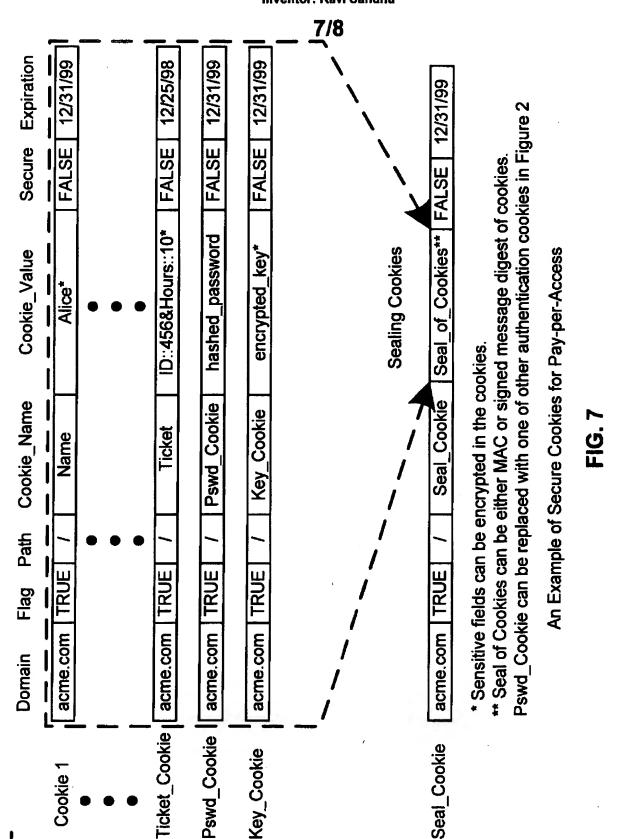
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